

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Algebra 1B Pd: \_\_\_\_\_

**Weekend Word Problem #6: Current/Wind**

**The Situation:** Radmir is flying to California, a 2800 mile trip, while Geist is flying back to DC. On Radmir's trip to California, there is a headwind and the trip takes seven hours. On Geist's flight back to DC, there is a tailwind and the trip takes five hours. What is the speed of the plane without wind? What is the speed of the wind?

a. Define variables that make sense for the situation.

b. Write AND SOLVE a system of linear equations. Show all work.

c. Check your answers via SUBSTITUTION and REALITY.

d. Write your final answers with LABELS.

